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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Yun YOU et al.

Confirmation No.: 3067

Serial No.: 10/562,408

Art Unit: 1636

Filed: December 07, 2006

Examiner: K.A. Makar

Customer No.: 21559

Title: MINUS STRAND RNA VIRAL VECTORS CARRYING A GENE WITH
ALTERED HYPERMUTABLE REGIONS (as amended)

Commissioner for Patents
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REQUEST TO CORRECT FILING RECEIPT

Applicants request that the enclosed filing receipt be corrected as follows.

Please correct the title as follows:

“MINUS STRAND RNA VIRUS VECTOR CARRYING GENE MODIFIED IN
HIGH MUTATION REGION”

to read:

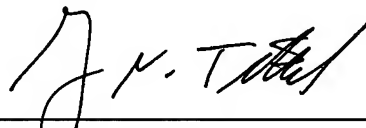
“MINUS STRAND RNA VIRAL VECTORS CARRYING A GENE WITH
ALTERED HYPERMUTABLE REGIONS”

Enclosed are copies of the incorrect filing receipt indicating the correction to be made, and the Preliminary Amendment, which sets for the correct title, as filed with the National Phase Application on December 23, 2005.

If there are any charges or any credits, please apply them to Deposit Account No. 03-2095.

Respectfully submitted,

Date: 25 May 2007



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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/562,408	12/07/2006	1645	1590	50026/057001	8	14	4

CONFIRMATION NO. 3067

 21559
 CLARK & ELBING LLP
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 BOSTON, MA 02110

COPY

FILING RECEIPT



OC000000022237345

Date Mailed: 02/01/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

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 Mamoru Hasegawa, Ibaraki, JAPAN;

Power of Attorney: The patent practitioners associated with Customer Number 21559.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/09617 06/30/2004

Foreign Applications

JAPAN 2003-187312 06/30/2003

If Required, Foreign Filing License Granted: 01/30/2007

 The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/562,408**

Projected Publication Date: 05/10/2007

Non-Publication Request: No

Early Publication Request: No

Title

~~Minus strand rna virus vector carrying gene modified in high mutation region.~~
 Minus strand rna viral vectors carrying a gene with altered hypermutable regions

Preliminary Class

435

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Jun YOU et al. Art Unit: Not Yet Assigned

Serial No.: Not Yet Assigned Examiner: Not Yet Assigned

Filed: December 23, 2005 Customer No.: 21559

Title: MINUS STRAND RNA VIRUS VECTOR CARRYING GENE
MODIFIED IN HIGH MUTATION REGION

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT

Prior to examination, kindly amend the application as follows.

Amendments to the specification:

Please note that all page numbers and line numbers herein refer to the concurrently filed English language translation of the Japanese language specification.

Please amend the title of the application as follows.

“MINUS STRAND RNA ~~VIRUS~~ VIRAL VECTOR VECTORS CARRYING A GENE
~~MODIFIED IN HIGH MUTATION REGION~~ WITH ALTERED HYPERMUTABLE
REGIONS”

Please insert the following heading and paragraph at page 1, line 5.

Cross-Reference to Related Applications

This application is the U.S. National Stage Application of International Application Number PCT/JP2004/009617, filed June 30, 2004, which, in turn, claims the benefit of Japanese Patent Application Serial Number 2003-187312, filed June 30, 2003.

Please amend page 12, line 34 through page, 13 line 1 as follows:

For example, Sendai virus E sequences include 3'-UNAUUCUUUUU-5' (N is any one of A, G, U, and C) (SEQ ID NO: 59; see Fig. 42), and human parainfluenza virus type 3 (HPIV-3) E sequences include 3'-UWWYWBUUUUU-5' (~~N is any one of A, G, T, and C~~ SEQ ID NO: 60), which specifically includes 3'-UUAUUCUUUUU-5' (SEQ

ID NO: 61), 3'-UAUUAGUUUUU-5' (SEQ ID NO: 62), 3'-UAAUAUUUUUU-5' (SEQ ID NO: 63), 3'-UUAUAUUUUUU-5' (SEQ ID NO: 64), and 3'-UAUCUGUUUUU-5' (SEQ ID NO: 65) (Genbank accession X03967, M13886, M13888, and M21649).

Measles virus E sequences include YRAUWHNUUUU (SEQ ID NO: 66), which specifically includes 3'-CAAUAUUUUUU-5' (SEQ ID NO: 67), 3'-UAAUAUUUUUU-5' (SEQ ID NO: 68), 3'-UGAUUUGUUUU-5' (SEQ ID NO: 69), 3'-CAAUAAUUUU-5' (SEQ ID NO: 70), 3'-UAAUUCUUUUU-5' (SEQ ID NO: 71), and 3'-UAAUUUCUUUU-5' (SEQ ID NO: 72) (Genbank accession K01711).

Hendravirus E sequences include 3'-WAAKYUUUUU-5' (SEQ ID NO: 73), which specifically includes 3'-UAAUUCUUUUU-5' (SEQ ID NO: 74) and 3'-

AAAUGUUUUUU-5' (SEQ ID NO: 75). Nipahvirus E sequences include 3'-UAAUUCUUUUU-5' (SEQ ID NO: 76; Genbank accession AF017149 and AF212302).

The E sequence of RSV includes 3'-AWKWWUUUU-5' (SEQ ID NO: 77), which specifically includes 3'-AUUAUAUUUU-5' (SEQ ID NO: 78), 3'-AUUAAAUUUU-5' (SEQ ID NO: 79), 3'-AUUAUUUUUU-5' (SEQ ID NO: 80), 3'-AUGUUUUUUU-5' (SEQ ID NO: 81), 3'-AUUAAUUUUU-5' (SEQ ID NO: 82), 3'-AUGAAUUUUU-5' (SEQ ID NO: 83), 3'-AAUAUAUUUU-5' (SEQ ID NO: 84), 3'-AAUAAAUUUU-5' (SEQ ID NO: 85), and 3'-AAUAAUUUUU-5' (SEQ ID NO: 86) (Genbank accession M74568).

SV5 E sequences include 3'-ARWWUCU₄₋₇-5' (SEQ ID NOs: 87, 88, 89, and 90), which specifically includes 3'-AGUAUCU₄₋₇-5' (SEQ ID NOs: 91, 92, 93, and 94),

3'-AAAUUCU₄₋₇-5' (SEQ ID NOs: 92, 93, 94, and 95), and NDV E sequences include 3'-AWUCUUUUUU-5' (SEQ ID NO: 96) (Kuo L *et al.*, J Virol. 1996, 70(10): 6892-901; Kuo L *et al.*, J Virol. 1996, 70(9): 6143-50).”

Please replace the Sequence Listing found in the English language translation of PCT/JP2004/009617 with the enclosed paper copy of the Sequence Listing provided with the concurrently filed Statement Under 37 C.F.R. §§ 1.821 – 1.825.

REMARKS


Applicants amend the specification to cross-reference related applications. The title has been amended. In addition, amendments to pages 12-13 have been entered.

These amendments correct errors in the Japanese specification, which are apparent when read in light of the translated English specification. Finally, a replacement Sequence Listing updating fields 110-170 has also been submitted. No new matter has been added by the present amendments.

If there are any charges or any credits, please apply them to Deposit Account No. 03-2095.

Respectfully submitted,

Date: 23 December 2005



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